IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Cured epoxy resin with increased flexural impact strength and breaking extension coupled with retention of stiffness, comprising deagglomerated barium sulphate having an average primary particle size of $< 0.5 \mu m$, preferably $< 0.1 \mu m$, in particular $< 0.08 \mu m$, very particularly $0.05 \mu m$, the barium sulphate comprising a crystallization inhibitor and a dispersant.

Claim 2 (Currently Amended): Cured The cured epoxy resin according to Claim 1, eharacterized in that wherein the barium sulphate is present in an amount of 0.1% to 50% by weight.

Claim 3 (Currently Amended): Cured The cured epoxy resin according to Claim 1-or 2, characterized in that, wherein the primary particle size of the barium sulphate is in the range from 0.01 μ m to 0.5 μ m, in particular in the range 0.01 μ m to 0.1 μ m, very particularly in the range from 0.01 to 0.05 μ m.

Claim 4 (Currently Amended): Cured The cured epoxy resin according to Claim 1, eharacterized in that wherein 90% of the secondary barium sulphate particles are smaller than $2 \mu m$, preferably < 250 nm, in particular < 200 nm, with particular preference < 130 nm, with particular preference < 100 nm.

Claim 5 (Currently Amended): Cured The cured epoxy resin according to Claim 1, obtainable by dispersing the wherein the deagglomerated barium sulphate is dispersed in a

precursor of the epoxy resin prior to its curing, preferably in the hardener, polyol and/or in the uncured epoxy resin.

Claim 6 (Currently Amended): Cured The cured epoxy resin according to Claim 5, obtainable by using hardeners wherein the hardener is based on polyoxyalkylenamines or in an anhydride hardeners hardener.

Claim 7 (Currently Amended): Cured The cured epoxy resin according to Claim 5, eharacterized in that 1, wherein the barium sulphate which is used which comprises a dispersant that sterically prevents reagglomeration of the barium sulphate particles and that contains groups which are able to interact with the surface of the barium sulphate, preferably earboxylate, phosphate, phosphonate, bisphosphonate, sulphate or sulphonate groups, the dispersant being substituted by polar groups which endow the barium sulphate particles with a hydrophilicized surface, preferably hydroxyl groups or amino groups, which permit the coupling of the barium sulphate particles to or into the epoxide and, accompanying the coupling, a further deagglomeration.

Claim 8 (Currently Amended): Cured The cured epoxy resin according to Claim 7, eharacterized in that wherein the dispersant is a polyether carboxylate which is substituted by terminal hydroxyl groups on the ether groups.

Claim 9 (Currently Amended): <u>Cured The cured</u> epoxy resin according to Claim 1, characterized in thatwherein the crystallization inhibitor is citric acid or sodium polyacrylate. Claim 10 (Currently Amended): Composite A composite material comprising epoxy resin according to any one of Claims 1 to 9.Claim 1.

Claim 11 (Currently Amended): Composite The composite material according to Claim 10, characterized in that it comprises comprising carbon fibre or glass fibre reinforcement.

Claim 12 (Currently Amended): Composition Composition comprising epoxy resin precursor, preferably hardener, and barium sulphate having a primary particle size $< 0.5 \mu m$, in particular $< 0.1 \mu m$, and comprising crystallization inhibitor and a dispersant, the dispersant preferably being a polyether polyearboxylate substituted terminally on the polyether groups by hydroxyl groups.

Claim 13 (Currently Amended): Composition The composition according to Claim 12, characterized in that wherein the barium sulphate is present in an amount of 0.1 % to 50% by weight, based on the total weight of the composition.

Claim 14 (Currently Amended): Composition Composition comprising uncured epoxy resin and barium sulphate having a primary particle size $< 0.5 \mu m$, in particular $< 0.1 \mu m$, the barium sulphate comprising crystallization inhibitor and a dispersant, the dispersant preferably being a polyether polycarboxylate substituted terminally on the polyether groups by hydroxyl groups.

Claim 15 (Currently Amended): Composition The composition according to Claim 14, characterized in that wherein the barium sulphate is present in an amount of 0.1% to 50% by weight, based on the total weight of the composition.

Claim 16 (Currently Amended): Process for producing epoxy resins according to any one of Claims Claim 1-to 9, characterized in that, wherein barium sulphate with having a particle size < 0.5

µm, in particular < 0.1

µm, which comprises and comprising a crystallization inhibitor and a dispersant, the dispersant preferably being a polyether carboxylate substituted terminally on the polyether groups by hydroxyl groups, is deagglomerated in the a precursor of the cured epoxy resin, preferably in the hardener or in the uncured epoxy resin, and then the cured epoxy resin is produced.

Claim 17 (Currently Amended): <u>A method of use Use</u> of the composite material according to Claim 10 or 11 in watercraft construction, in wind turbines, pipes, containers, in vehicle construction or in aircraft construction.

Claim 18 (New): The cured epoxy resin according to Claim 1, wherein the deagglomerated barium sulphate has an average primary particle size of $< 0.1 \mu m$.

Claim 19 (New): The cured epoxy resin according to Claim 1, wherein 90% of the secondary barium sulphate particles are smaller than 250 nm.

Claim 20 (New): The cured epoxy resin according to Claim 1, obtainable by dispersing the deagglomerated barium sulphate in a precursor of the epoxy resin prior to its curing.

Claim 21 (New): The process according to Claim 16, wherein the barium sulphate is dispersed in the hardener or in the uncured epoxy resin.